5

10

OSSCHII IECHOI

- illumination arrangement having an optical waveguide (11; 31; 43), a light source (12; 32, 41), which couples emitted light into the optical waveguide, and having a mount (10; 20, 21; 22, 23; 30, 35, 38; 40, 42), which is formed as a shell from a plurality of shell elements which are connected to one another and enclose the optical waveguide at least in regions in which the light is intended to be deflected.
- 2. The illumination arrangement as claimed in claim 1,
- 15 characterized in that the inner walls of the shell elements are designed as reflectors (16; 37; 44).
- 3. The illumination arrangement as claimed in claim 1 20 or 2, characterized in the at least one shell element has a light exit opening (13).
- 25 The illumination arrangement as claimed in one of the preceding claims, characterized in that the mount for the light holder is constructed from two shell elements (20, 21; 22, 23; 40, 42).
 - The illumination arrangement as claimed in one of 5. the preceding claims, characterized in that the shell elements contain vertical horizontal abutting edge and/or an overlapping

The illumination arrangement as claimed in one of the preceding claims,

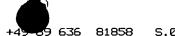
35

fold.

30

5





characterized in that the shell elements (20, 21) abut one another approximately centrally with respect optical waveguide and are constructed essentially symmetrically.

- The illumination arrangement as claimed in one of 7. patent claims 1 to 5, characterized in that
- 10 the shell elements (22, 23) contain a part (22) optical waveguide accommodates the essentially on three sides and can be closed off by a side wall (22).
- 15 8. The illumination arrangement as claimed in one of claims 1 to 5, characterized in that the shell elements (40, 42) contain a base part (40) and a dover (42).
- 20 The illumination arrangement as claimed in one of 9. the preceding claims, characterized in that
- the optical waveguide and the shell elements of 25 the mount are designed as shaped parts coordinated with one another in such a way that the light-guiding losses and/or bright surface regions (hot spots) are minimal.
- 30 10 The illumination arrangement as claimed in one of the preceding claims, characterized in that the shell elements can be connected to one another by releasable elements (25, 26; 27, 28).
 - The illumination arrangement as claimed in one of 11. the preceding claims, characterized in that

5

10

15

20

COSSOLI. ISSOL

(3,3′)

emitting

- 10 -

the light source is a light-emitting diode (LED) or a laser diode, above which the mount for the optical waveguide is arranged and which couples the emitted light directly into the optical waveguide.

- 12. The illumination arrangement as claimed in one of the preceding claims, characterized in that a plurality of light sources (41a, 41b, 41c; 12a,
- 13. The illumination arrangement as claimed in one of the preceding claims, characterized in that the mount (30, 35, 38) is constructed in such a way that it can accommodate a vertically (12; 32;

and/or horizontally

12b) are provided.

42)

source.

14. A method for producing an illumination arrangement as claimed in one of patent claims 1 to 13, characterized in that an optical waveguide (11; 31; 43) is firstly inserted into one shell element (20; 22; 40) and

- inserted into one shell element (20; 22; 40) and is then covered by a further shell element (21; 23; 42).
- 15. The method as claimed in claim 14,
 30 characterized in that
 the optical waveguide and the shell elements are
 produced as injection-molded parts.
- 16. The method as claimed in either of claims 14 and
 15,
 characterized in that
 the mount with the inserted optical waveguide are
 connected to a circuit board (14; 34; 45) in such
 a way that these are arranged above a light source